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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/618,597	07/15/2003	Chih-Mo Wu	BHT/3134-114	6863	
7590 03/11/2005			EXAM	EXAMINER	
TROXELL LAW OFFICE PLLC SUITE 1404			LE, UYEN CHAU N		
5205 LEESBURG PIKE			ART UNIT	PAPER NUMBER	
FALLS CHURCH, VA 22041			2876		

DATE MAILED: 03/11/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

1		·			
	Application No.	Applicant(s)			
	10/618,597	EHRHART, MICHAEL			
Office Action Summary	Examiner	Art Unit			
·	Uyen-Chau N. Le	2876			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period way reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status		•			
1) Responsive to communication(s) filed on 15 Ju	ıly 2003.				
·_ ·	action is non-final.				
3) Since this application is in condition for allowar					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ☐ Claim(s) 1-16 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-16 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicated any not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the liderawing(s) be held in abeyance. See ion is required if the drawing(s) is objected.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	4) ☐ Interview Summary Paper No(s)/Mail D 5) ☐ Notice of Informal F				
Paper No(s)/Mail Date	6) 🔲 Other:				

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DETAILED ACTION

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Prelim. Amdt/Amendment

1. Receipt is acknowledged of the Preliminary Amendment filed 15 July 2003.

Claim Objections

2. Claims 1-4, 6-9, 11-12, 14 and 16 are objected to because of the following informalities:

Re claim 1, line 1: Substitutes "SATA" with -- Serial Advanced Technology Attachment Interface (SATAI) --.

Re claim 1, line 4: Substitutes "the first wafer module" with -- a first wafer module --.

Re claim 1, line 5: Substitutes "a first wafer module" with -- the first wafer module --.

Re claim 1, line 5: Substitutes "the IDEI" with -- an Integrated Disc Electronics Interface (IDEI) --.

Re claim 1, line 5: Substitutes "it" with -- the first wafer module --.

Re claim 1, line 6: Substitutes "the second wafer module" with -- a second wafer module --.

Re claim 1, line 8: Substitutes "a second wafer module" with -- the second wafer module --.

Re claim 1, line 9: Substitutes "the input" with -- input --.

Re claim 1, line 9: Substitutes "the external plugging media storage. Once" with -- an external plugging media storage; once --.

Re claim 1, line 10: Substitutes "it" with -- the second wafer module --.

Re claim 1, line 10: Substitutes "the connected signal" with -- a connected signal --.

Re claim 1, line 10: Substitutes "it" with -- the second wafer module --.

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Re claim 1, line 11: Substitutes "the media storage" with -- the external media storage --.

Re claim 1, line 13: Substitutes "two plugging slot" with -- two plugging slots --.

Re claim 1, line 14: Substitutes "silicon card" with -- the silicon card --.

Re claim 2, line 3: Substitutes "the SATA bus" with -- a SATA bus --.

Re claim 3, line 3: Substitutes "a first slot" with -- a first plugging slot --.

Re claim 3, line 6: Substitutes "a second slot" with -- a second plugging slot --.

Re claim 3, line 10: Substitutes "a first plugging slot" with -- the first plugging slot --.

Re claim 3, line 11: Substitutes "220" with -- (120) --

Re claim 4, line 2: Substitutes "the means" with -- means --.

Re claim 4, lines 2-3: Substitutes "the reading card" with -- the reading card unit --.

Re claim 4, line 3: Substitutes "using the first plugging slot" with -- using only the first plugging slot --.

Re claim 6, line 1: Substitutes "The silicon card" with -- A silicon card --.

Re claim 6, line 1: Substitutes "SATAI" with -- Serial Advanced Technology Attachment Interface (SATAI) --.

Re claim 6, line 4: Substitutes "the first wafer module" with -- a first wafer module --.

Re claim 6, line 5: Substitutes "SATAI" with -- the SATAI --.

Re claim 6, line 6: Substitutes "the input" with -- input --.

Re claim 6, lines 6-7: Substitutes "the reading device" with -- a reading device --

Re claim 6, line 7: Substitutes "the external plugging media storage. Once it receives" with -- an external plugging media storage; once the second wafer module receives --.

Re claim 6, line 8: Substitutes "the connected signal" with -- a connected signal --.

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Re claim 6, line 8: Substitutes "it" with -- the second wafer module --.

Re claim 6, line 10: Substitutes "its external media" with -- the external media --.

Re claim 6, line 11: Substitutes "its external media" with -- the external media --.

Re claim 6, line 12: Substitutes "it" with -- the reading card unit --.

Re claim 6, line 12: Substitutes "a silicon card" with -- the silicon card --.

Re claim 7, line 3: Substitutes "the SATA bus" with -- a SATA bus --.

Re claim 8, line 6: Substitutes "a second slot" with -- a second plugging slot --.

Re claim 8, line 10: Substitutes "a first plugging slot" with -- the first plugging slot --.

Re claim 8, line 11: Substitutes "220" with -- (120) --.

Re claim 9, line 2: Substitutes "the means" with -- means --.

Re claim 11, line 2: Substitutes "the reading cell" with -- a reading cell --.

Re claim 11, line 2: Substitutes "the interface" with -- an interface --.

Re claim 12, line 2: Substitutes "the means" with -- means --.

Re claim 12, lines 2-3: Substitutes "the reading card" with -- the reading card unit --.

Re claim 12, line 3: Substitutes "using the first plugging slot" with -- using only the first plugging slot --.

Re claim 14, line 2: Substitutes "the means" with -- means --.

Re claim 16, line 2: Substitutes "the reading cell" with -- a reading cell --.

Re claim 16, line 2: Substitutes "the interface" with -- an interface --.

Appropriate correction is required.

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Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness

rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject

matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was

made.

4. Claims 1-4, 6-9, 11-12, 14 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable

over Liu et al (US 6,751,964) in view of Lai et al (US 6,725,291).

Re claims 1 and 6: Liu et al discloses a Silicon Card/disk For Reading Device by applying

SATA comprising: a SATAI that connects with a Data Processing Device generates a connected signal

to a First Wafer Module; the first Wafer Module converts the SATAI into the IDEI when the first

wafer module receives a connected signal (i.e., via delivery unit 50) and generates a converted signal to

the Second Wafer Module (i.e., electric circuit board provided in the main body 20); a the second

wafer module/electric circuit connects with the First Wafer Module to process the input and output

controlling, programming of the Silicon Card For Reading Device, and reading an external plugging

media storage (i.e., memory card 60); a reading Card Unit connects with the Silicon Card For Reading

Device's external media storage and supports at least two Plugging Slots [21, 22] allowing external

media devices to connect with Silicon Card For Reading Device (fig. 1; col. 4, line 4 through col. 5,

line 12).

Liu et al fails to teach or fairly suggest that once the second wafer module/electric circuit

receives the connected signal as described above, the second wafer module/electric circuit will be in

waiting state and examine the utilization of the media storage at any moment.

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Lai et al teaches upon insertion of a card, the second wafer module/control device 34 issues command(s) for determining a card type (figs. 2-3; col. 2, line 65 through col. 3, line 59).

It would have been obvious to an artisan of ordinary skill in the art at the time the invention was made to incorporate the card type determination process of Lai et al into the system as taught by Liu et al in order to provide Liu et al with a more accurate system in which a card type being determined before starting a reading or writing process (i.e., different types of memory cards have different response speeds), thus preventing error during reading or writing data from/to the card, and therefore an obvious expedient.

Re claims 2 and 7: wherein the SATAI can be a connector with 7 Pin and connects with the SATA Bus (i.e., delivery unit 50) (Liu et al. fig. 1; col. 4, line 62 through col. 5, line 12).

Re claims 3 and 8: wherein the Reading Card Unit Comprising: a First Slot 22/insertion cassette 40 can be designed as a PCMCIA or CF interface allowing to support ATX Device, ATA Flash Card, Compact Flash Card type 1/11, Micro Drive etc (Liu et al: fig. 3; col. 4, lines 39-49); a Second Slot 21/insertion cassette 30 can be designed as a particular interface allowing to support one of SD, MMC, RS MMC, MMC ROM Card, XD etc, or designed as a combined interface in order to use various memory cards at the same or different times (Liu et al: fig. 2; col. 4, lines 27-38); the First Plugging Slot [22, 40] and the Second Plugging Slot [21, 30] control their working time through the Second Wafer Module/electric circuit (Liu et al: fig. 1; col. 4, line 53-61).

Re claims 4, 9, 12 and 14: wherein means that the Second Wafer Module uses the Reading Card can be either single using the first plugging slot, the Second Plugging slot, or using repetition of anyone of the First Plugging Slot and the Second Plugging slot at the same time (Liu et al: fig. 1; col. 4, lines 50-61).

Re claims 11 and 16: wherein a Reading Cell can be designed as the interface with single plugging slot by applying CF interface (Liu et al: fig. 5; col. 5, lines 54+).

5. Claims 5, 10, 13 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Liu et al as modified by Lai et al as applied to claims 1 and 6 above, and further in view of Shin (US 6,708,230). The teachings of Liu et al as modified by Lai et al have been discussed above.

Re claims 5, 10, 13 and 15: Liu et al/Lai et al has been discussed above but is silent with respect to a Switch Unit can be designed to add to the Silicon Card For Reading Device to provide a function of automatically switching between using the First Plugging Slot and the Second Plugging Slot by user.

Shin teaches switches [SW1-SWN] are provided for selecting the slots [21A-21N] (figs. 3-4; col. 3, lines 3-24 and col. 4, line 5 through col. 5, line 34).

It would have been obvious to an artisan of ordinary skill in the art at the time the invention was made to incorporate a switch for switching between slots as taught by Shin into the system of Liu et al/Lai et al in order provide Liu et al/Lai et al with a more accurate system, preventing signal interference between the two slots, thus eliminating error during reading/writing data from/to an inserted card, and therefore an obvious expedient.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The patents to Jones et al (US 6438638 B1); Liu et al (US 6524137 B1); Huang et al (US 6718274 B2); Yen (US 6744634 B2); Yen (US 6813164 B2); Tseng et al (US 6813668 B2); Cedar et

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al (US 6820148 B1); Jones et al (US 6832281 B2); Mambakkam et al (US 6839864 B2); Piau et al (US

6859856 B2) are cited as of interest and illustrate a similar structure to a silicon card for reading device

by applying serial advanced technology attachment interface.

Any inquiry concerning this communication or earlier communications from the examiner

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should be directed to Uyen-Chau N. Le whose telephone number is 571-272-2397. The examiner can

normally be reached on Mon-Fri. 5:30AM-2:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

MICHAEL G. LEE can be reached on 571-272-2398. The fax phone number for the organization

where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application

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Uyen-Chau N. Le

All_

March 06, 2005